

### Amendments to the Claims

1-16. (Cancelled)

17. (Currently amended) A filter cartridge comprising a fiber membrane material obtained by introducing ion exchange groups and/or chelate groups into an organic polymer fiber membrane base material having a fiber diameter of 0.1 µm to 20 µm and an average pore size of 1µm to 20 µm. The filter cartridge of claim 15, wherein the fiber base material is a woven fabric or a non-woven fabric, and wherein a polymer side chain having ion exchange groups and/or chelate groups is introduced on the main chain of the organic polymer fiber membrane base material by a radiation graft polymerization method.

18. (Currently amended) The filter cartridge of claim-1517, wherein the ion exchange group is selected from a sulfonic acid group, a phosphoric acid group, a carboxyl group, a quaternary ammonium group, and a primary, secondary or tertiary lower amino group, and the chelate group is selected from an iminodiethanol group, an iminodiacetic acid group, a dithiocarbamic acid group and a thiourea group.

19-20. (Cancelled)

21. (Currently amended) A filter cartridge comprising a fiber membrane material obtained by introducing ion exchange groups and/or chelate groups into an organic polymer fiber membrane base material, and a micro porous membrane material obtained by introducing hydrophilic groups into an organic porous membrane base material. The filter cartridge of claim 19, wherein a polymer side chain having ion exchange groups and/or chelate groups is introduced on the main chain of the organic polymer fiber membrane base material by the radiation graft polymerization method, and wherein the fiber membrane material and the micro porous membrane material are laminated together.

22. (Currently amended) The filter cartridge of claim-~~19~~21, wherein the fiber base material is a woven fabric or a non-woven fabric.

23. (Currently amended) The filter cartridge of claim-~~19~~21, wherein the organic polymer fiber membrane base material has~~-an average~~a fiber diameter of 0.1  $\mu\text{m}$  to 50  $\mu\text{m}$  and an average pore size of 0.1  $\mu\text{m}$  to 100  $\mu\text{m}$ .

24. (Currently amended) The filter cartridge of claim 23, wherein the organic polymer fiber membrane base material has~~-an average~~a fiber diameter of 0.1  $\mu\text{m}$  to 20  $\mu\text{m}$  and an average pore size of 1  $\mu\text{m}$  to 20  $\mu\text{m}$ .

25. (Currently amended) The filter cartridge of claim-~~19~~21, wherein the ion exchange group is a cation exchange group selected from a sulfonic acid group, a phosphoric acid group and a carboxyl group or an anion exchange group selected from a quaternary ammonium group and a primary, secondary or tertiary lower amino group, and the chelate group is selected from an iminodiethanol group, an iminodiacetic acid group, a dithiocarbamic acid group and a thiourea group, and the hydrophilic group is an ionic hydrophilic group selected from a sulfonic acid group, a phosphoric acid group, a carboxyl group, a quaternary ammonium group, a tertiary amino group, a secondary amino group and a primary amino group or a nonionic hydrophilic group selected from an amide group and a hydroxyl group.

26. (Currently amended) The filter cartridge of claim-~~19~~21, wherein the average pore size of the micro porous membrane is 0.02  $\mu\text{m}$  to 1.0  $\mu\text{m}$ .

27. (Previously presented) The filter cartridge of claim 26, wherein the average pore size of the micro porous membrane is 0.02  $\mu\text{m}$  to 0.5  $\mu\text{m}$ .

28-34. (Cancelled)

35. (Currently amended) A system for feeding water or a chemical to a microelectronics device fabrication process characterized in that a filter cartridge of claim-1517 is incorporated into a water or chemical feed line to the microelectronics device fabrication process.

36. (Currently amended) A system for feeding water or a chemical to a microelectronics device fabrication process characterized in that a filter cartridge of claim-1921 is incorporated into a water or chemical feed line to the microelectronics device fabrication process.

37. (Cancelled)